

Application No.: 10/680,049

Docket No.: 103488-0021

AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of the claims in this application.

Listing of the Claims:

1. (Currently Amended) A method for identifying related triples data in a resource description framework (RDF) data set directed graph, comprising:

A. executing the sub-steps of

- (i) identifying as related a triple data substantially matching a criteria;
- (ii) identifying as related a triple data that is a direct ancestor of a triple data identified in any of sub-steps in step A, and that is not in substantial conflict with the criteria;

where, for purposes hereof, a triple whose object is the subject of another triple is deemed a direct ancestor of that other triple, and, conversely, where a triple whose subject is the object of another triple is deemed a direct descendent of that other triple;

- (iii) identifying as related a triple data (hereinafter "identified descendent") that is a direct descendent of a triple data (hereinafter "identified ancestor") identified as related in any of sub-steps in step A, and which identified descendent
 - (a) is not associated does not have a named relationship with the identified ancestor via a predicate substantially matching a predicate relationship named in the criteria, if any, and
 - (b) is not in substantial conflict with the criteria;
 - (c) is not associated does not have a named relationship with the identified ancestor via a predicate matching a predicate by which the identified ancestor is associated with a triple matching a relationship the identified

Application No.: 10/680,049

Docket No.: 103488-0021

~~ancestor has with a data~~, if any, as a result of which the identified ancestor was identified during execution of sub-step (ii),

- B. generating an indication of data identified as related in step (A).
- 2. (Canceled)
- 3. (Canceled)
- 4. (Original) The method of claim 1, comprising executing any of the sub-steps of step (A) any of serially, in parallel, or recursively.
- 5. (Original) The method of claim 1, further comprising executing any of the sub-steps of step (A) using a rule-based engine.
- 6. (Original) The method of claim 5, wherein the rule-based engine uses a Rete algorithm to effect execution of one or more of the sub-steps of step (A).
- 7. (Currently Amended) The method of claim 1, wherein the resource description framework ~~directed graph~~ comprises a data flow.
- 8. (Original) The method of claim 7, wherein the data flow comprises any of transactional information and enterprise-related information.
- 9. (Original) The method of claim 1, comprising

executing step (A) with respect to a first data set representing a first portion of the directed graph, and

executing step (A) separately with respect to a second data set representing a second portion of the directed graph.
- 10. (Original) A method of claim 9, wherein the second data set comprises an update to the first data set.

11-41 Canceled

Application No.: 10/680,049

Docket No.: 103488-0021

42. (Currently Amended) A method for identifying related triples data in a resource description framework (RDF) data set directed graph, comprising:

A. executing the sub-steps of

(i) identifying as related a triple data that is a direct ancestor of a triple data identified in any of sub-steps of step A, and that is not in substantial conflict with the criteria;

where, for purposes hereof, a triple whose object is the subject of another triple is deemed a direct ancestor of that other triple, and, conversely, where a triple whose subject is the object of another triple is deemed a direct descendent of that other triple;

(ii) identifying as related a triple data (hereinafter "identified descendent") that is a direct descendent of a triple data (hereinafter "identified ancestor") identified as related in any of sub-steps of step A and which identified descendent

(a) ~~is not associated does not have a named relationship~~ with the identified ancestor via a predicate substantially matching a predicate relationship named in the criteria, if any, and

(b) is not in substantial conflict with the criteria;

(c) ~~is not associated does not have a named relationship~~ with the identified ancestor via a predicate matching a predicate by which relationship the identified ancestor is associated with a triple has with a data, if any, as a result of which the identified ancestor was identified during execution of sub-step (ii),

B. generating an indication of data identified as related in step (A).